

Title (en)

CELLULOSE NANOFIBER, PRODUCTION METHOD OF SAME AND CELLULOSE NANOFIBER DISPERSION

Title (de)

ZELLULOSENANOFASER UND VERFAHREN ZU IHRER HERSTELLUNG SOWIE ZELLULOSENANOFASERDISPERSION

Title (fr)

NANOFIBRE DE CELLULOSE ET SON PROCEDE DE FABRICATION, ET DISPERSION DE NANOFIBRE DE CELLULOSE

Publication

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Application

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Priority

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Abstract (en)

[origin: EP2216345A1] The cellulose nanofiber production method of the present invention comprises an oxidation treatment step for oxidizing native cellulose in a neutral or acidic reaction solution containing an N-oxyl compound and an oxidizing agent that oxidizes aldehyde groups, and a dispersion step for dispersing the native cellulose in a medium following the oxidation treatment step. According to the production method of the present invention, a cellulose nanofiber is provided that has long fibers and demonstrates high strength.

IPC 8 full level

C08B 15/04 (2006.01); **C08L 1/04** (2006.01); **D01F 2/00** (2006.01); **D21H 11/20** (2006.01)

CPC (source: EP US)

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Cited by

FR2968680A1; EP2615128A4; ES2386045A1; US2015203594A1; EP2867283A4; US2010282422A1; US8287692B2; EP2705098A4; EP3070131A4; EP3335695A1; EP3335696A1; EP4026869A4; US9388301B2; WO2018109281A1; WO2018109282A1; WO2014174152A1; US10138598B2; WO2013182798A1; US11214917B2; US11324701B2; US9248090B2; US9801802B2; US9901527B2; US10301774B2; US10982387B2; US10982390B2; WO2014174429A1; WO2012150383A2; WO2015015056A1; US10604589B2; US10767307B2; US9969816B2; US10100464B2; US11162219B2; US11377791B2; US11732411B2; US9410285B2; US9719208B2; US10294613B2; US10865519B2; US10577469B2; US11384210B2; US11932740B2; EP2184299B1; US10000890B2; US10151064B2; US10253457B2; US10697118B2; US10995453B2; US11136721B2; US11155697B2; US11542659B2; US11655594B2; US9951470B2; US10053817B2; US10100467B2; US10174455B2; US10294614B2; US10294371B2; US10550516B2; US10633796B2; US10753043B2; US10975242B2; US9617686B2; US9777432B2; US9909257B2; US9926666B2; US9970158B2; US10106927B2; US10407830B2; US10731293B2; US10794006B2; US11111628B2; US11572659B2; USRE49570E; US10214859B2; US10801162B2; US11274399B2; US11732421B2

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DOCDB simple family (application)

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